

WHAT IS CLAIMED IS:

1. A method of describing frame information, the method comprising:

describing, for a frame extracted from a plurality of frames in a source video data, first information specifying a location of the extracted frame in the source video data; and

10 describing, for the extracted frame, second information relating to a display time of the extracted frame.

15 2. The method according to claim 1, wherein the extracted frame comprises a group of frames, and the first information comprises information specifying a location of the extracted group of frames in the source video data.

20 3. The method according to claim 1, further comprising describing, for the extracted frame, third information relating to importance of the extracted frame.

25 4. The method according to claim 1, wherein the first information comprises information specifying an image data file created from the video data of the extracted frame.

5. The method according to claim 1, wherein the extracted frame comprises a frame extracted from a plurality of frames included in a temporal section of the source video data, and further describing fourth

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information specifying the temporal section of the source video data.

6. The method according to claim 5, wherein the first information comprises information specifying an image data file created from the source video data of the extracted frame, the image data corresponding to the extracted frame.

7. The method according to claim 1, wherein the second information comprises information relating to such display time that a frame activity value during a special reproduction is kept substantially constant.

8. The method according to claim 1, further comprising describing fifth information indicating whether the extracted frame is reproduced or not.

9. The method according to claim 1, wherein the first information comprises one of information specifying a location of the extracted frame among the plurality of frames and information specifying a location of image data within an image data file created from the source video data and stored separately from the video data, the image data corresponding to the extracted frame.

10. The method according to claim 1, further comprising describing, for media data other than the source video data including the extracted frame, information specifying a location of the media data and information relating to a display time of the media

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data.

11. An article of manufacture comprising a computer usable medium storing frame information, the frame information comprising:

5 first information, described for a frame extracted from a plurality of frames, specifying a location of the extracted frame in the source video data; and

10 second information, described for the extracted frame, relating to a display time of the extracted frame.

12. The article of manufacture according to claim 11, wherein the extracted frame comprises a group of frames, and the first information comprises information specifying a location of the extracted group of frames in the source video data.

15 13. The article of manufacture according to claim 11, wherein the frame information comprises third information relating to importance of the extracted frame.

20 14. The article of manufacture according to claim 11, wherein the first information comprises information specifying an image data file created from the video data of the extracted frame.

25 15. The article of manufacture according to claim 11, further storing the source video data and an image data file corresponding to the source video data of the extracted frame in addition to the frame

information.

16. An apparatus for creating frame information, the apparatus comprising:

5 a unit configured to extract a frame from a plurality of frames in a source video data;

a unit configured to create the frame information including first information specifying a location of the extracted frame and second information relating to a display time of the extracted frame; and

10 a unit configured to link the extracted frame to the frame information.

17. A method of creating frame information, the method comprising:

15 extracting a frame from a plurality of frames in a source video data; and

creating the frame information including first information specifying a location of the extracted frame in the source video data and second information relating to a display time of the extracted frame.

20 18. An apparatus for performing a special reproduction, comprising:

25 a unit configured to refer to frame information described for a frame extracted from a plurality of frames in a source video data and including first information specifying a location of the extracted frame in the source video data and second information relating to a display time of the extracted frame;

a unit configured to obtain the video data corresponding to the extracted frame based on the first information;

5 a unit configured to determine the display time of the extracted frame based on the second information; and

a unit configured to display the obtained video data for the determined display time.

10 19. A method of performing a special reproduction comprising:

referring to frame information described for a frame extracted from a plurality of frames in a source video data and including first information specifying a location of the extracted frame and second information 15 relating to a display time of the extracted frame;

obtaining the video data corresponding to the extracted frame based on the first information;

determining the display time of the extracted frame based on the second information; and

20 displaying the obtained video data for the determined display time.

25 20. An article of manufacture comprising a computer usable medium having computer readable program code means embodied therein, the computer readable program code means performing a special reproduction, the computer readable program code means comprising:

computer readable program code means for causing a

computer to refer to frame information described for a frame extracted from a plurality of frames in a source video data and including first information specifying a location of the extracted frame and second information 5 relating to a display time of the extracted frame;

computer readable program code means for causing a computer to obtain the video data corresponding to the extracted frame based on the first information;

10 computer readable program code means for causing a computer to determine the display time of the extracted frame based on the second information; and

computer readable program code means for causing a computer to display the obtained video data for the determined display time.

15 21. A method of describing sound information, the method comprising:

describing, for a frame extracted from a plurality of sound frames in a source sound data, first information specifying a location of the extracted 20 frame in the source sound data; and

describing, for the extracted frame, second information relating to a reproduction start time and reproduction time of the sound data of the extracted frame.

25 22. An article of manufacture comprising a computer usable medium storing frame information, the frame information comprising:

first information, described for a frame extracted from a plurality of sound frames, specifying a location of the extracted frame in the source sound data; and

5 second information, described for the extracted frame, relating to a reproduction start time and reproduction time of the sound data of the extracted frame.

23. A method of describing text information, the method comprising:

10 describing, for a frame extracted from a plurality of text frames in a source text data, first information specifying a location of the extracted frame in the source text data; and

15 describing, for the extracted frame, second information relating to a display start time and display time of the text data of the extracted frame.

24. An article of manufacture comprising a computer usable medium storing frame information, the frame information comprising:

20 first information, described for a frame extracted from a plurality of text frames in a source text data, specifying a location of the extracted frame in the source text data; and

25 second information, described for the extracted frame, relating to a display start time and display time of the text data of the extracted frame.

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